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11 May '98

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Michael McAteer  
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**Re: Enviro-Chem Superfund Site  
Monthly Construction Progress Report Number 5  
April 1998**

This Monthly Progress Report has been prepared in accordance with Section XII of the Consent Decree entered September 10, 1991, Number 83419C, U.S.D.C. District of Indiana.

**(1) Actions Taken Toward Achieving Compliance with Decree**

- a. Versar hydrostatically tested Tank - T-4 (the XR-5 lined Tank) with 150,000 gallons of potable water. Quality Assurance Reports were issued on tanks T-2 & T-4. (100% complete)
- b. Versar completed the following electrical activities: Construction power was relocated to the permanent power poles, installed and activated the PLC Control System, programmed the wastewater control portion of the PLC System, installed conduit and wire to the SVE pumps and installed wire and underground conduit to the above ground tanks. Completed installation of all the items in the March Monthly Report. (80% complete)
- c. Versar completed the following mechanical activities: Set in place two 13,600 pound carbon canisters and installed interconnecting piping between the SVE System, permanent low profile stripper and the temporary low profile stripper. Worked on the SVE field piping manifold and dewatering field piping manifold inside the Process Building. Completed the underground piping system. (80% complete)
- d. Versar checked out the permanent waste treatment system with 15,000 gallons of potable wastewater repairing leaking joints, calibrating flow instruments and programming the PLC. (75 % complete)
- e. Versar processed approximately 78,000 gallons of contaminated Southern Concrete Pad water through the permanent WWT system and placed this process water into Tank (3). The processed water was sampled and sent to a CLP certified laboratory. Laboratory results on this tank of processed water were submitted and approved by

Indiana Department of Environmental Management. This batch of processed water was then discharged to the on-site north and Parcel 45 ditch. (100% complete)

- f. Surveyed in the north and central key way and berm that the stage 1 cover will tie into. Began to excavate the key way. (20% complete)
- g. Versar implemented the Hot Spot field treatment work this month. Initial extraction of concentrated organics, followed by treatment with a Fenton Reagent was done. Follow-up sampling will take place in approximately one week. (80% complete)
- h. The concrete pad for the ECC Process Building and north pad have been broken up and stockpiled ready for crushing operations. Approximately one-half of the south concrete pad has also been broken up and stacked. Constant rain is making it difficult to proceed with further concrete breaking of the South Pad. (50 % complete)
- i. Well drillers have been installing monitoring wells in the north, central and southern areas of the ECC site, for the ECC Trustees. (80 % complete)
- j. Versar installed culverts 2 and 4 in the Parcel 45 drainage ditch. Regrading and clean out of this drainage ditch was started. (70 % complete)
- k. Versar submitted the Geotechnical Survey on the Southern Concrete Pad Area on April 8. (100 % complete)
- l. The portable wastewater treatment system was delivered to the site on April 22. (80 % complete)
- m. A pink colored liquid was discovered while breaking-up the Southern Concrete Pad on April 20. The colored material was pumped to one of the on-site Frac tanks and sampled. The sampling results will be utilized to determine the compatibility of the colored liquid and the on-site wastewater treatment system. (50 % complete)
- n. The earthen berm along the southeastern portion of the Southern Concrete Pad was reinforced to assure that no leakage would occur into Unnamed Ditch. (100 % complete)
- o. Geotechnical sampling and analysis of the borrow pit material took place on March 30 and April 13. (75 % complete)
- p. Environ continued weekly conference calls with USEPA, IDEM, Trustees and Versar on April 3, 10, 17 & 24.

**(2) Validated Results and Other Data**

The only validated data generated during this month relates to the standing water removed from the Southern Concrete Pad and the Hot Spot Characterization. This data has been submitted under separate cover on April 29 and 13, respectively.

**(3) Additional Work Performed**

There was no "Additional Work" within the meaning of the Consent Decree. Work completed this month under Revised Exhibit A includes the steps identified in items (1) a through (1) p above.

**(4) Anticipated Activities for Next Month**

- a. Versar will start-up, checkout and operate the portable wastewater treatment system.
- b. Versar will start-up and checkout the SVE equipment and system in the Process Building.
- c. Versar will process and store the accumulated water from the exclusion zone. After laboratory analyses to assure that discharge criteria are met, the processed water will be discharged to the Unnamed Creek.
- d. Versar will continue soil work in the exclusion zone including the key way and berm, utilizing off-site select backfill material.
- e. Versar will crush all of the concrete from the ECC Process Building Pad, North pad and South Pad.
- f. Versar will take additional samples from the Bankert's Borrow Pit and will verify suitability of this material as select fill.
- g. Versar will meet on May 7, 1998 with USEPA, IDEM & Trustees to review the Excavation Plan for the Southern Concrete Pad Area.
- h. Versar will continue to work on refurbishment on the drainage ditches.
- i. The pink liquid pumped into the Frac tank will be treated on-site and released to Unnamed Ditch after testing, with the concurrence of IDEM.

**(5) Problems & Resolution**

The construction schedule needs to be updated to reflect the impact of the detection and treatment of the concentrated organics in the vicinity of the Southern Concrete Pad Area.

Photographs of site activities taken during the month are included in Attachment 1.

If you have any questions, please feel free to call me at (215) 788-7844, Extension 222

Sincerely,



G. J. Anastos, Ph.D., P.E.  
Project Manager

attachment

cc:	D Basko (Versar)	J Freeman (DOJ)
	R Ball (ENVIRON)	C Gaffney (Versar)
	Joe Borucki (Versar)	R Hutchens (ENVIRON)
	N Bernstein (NEB & A)	J Kyle, III (B & T)
	M Dowiak (Radian)	G Scarpone (Handex)

**Attachment 1**  
**Site Photographs**



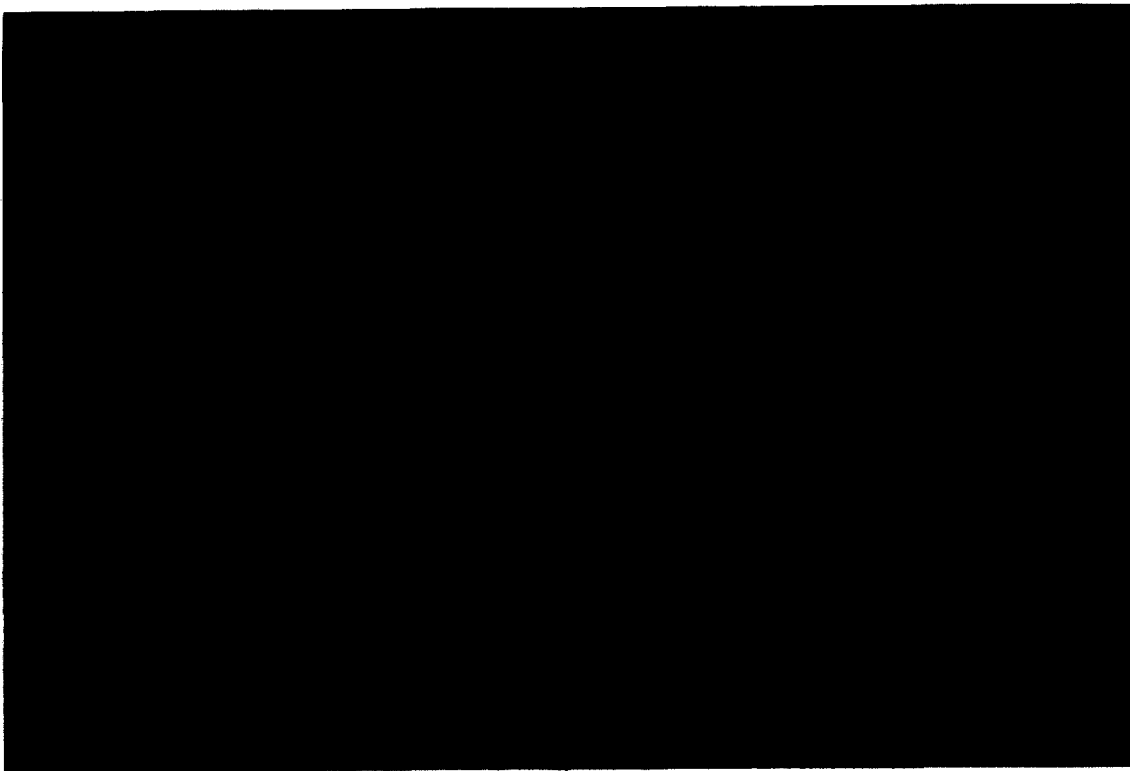
**Photograph # 1 - Construction power relocation to permanent power poles.**



**Photograph # 2 - Two 13,600 pound carbon canisters with interconnecting piping to SVE system.**

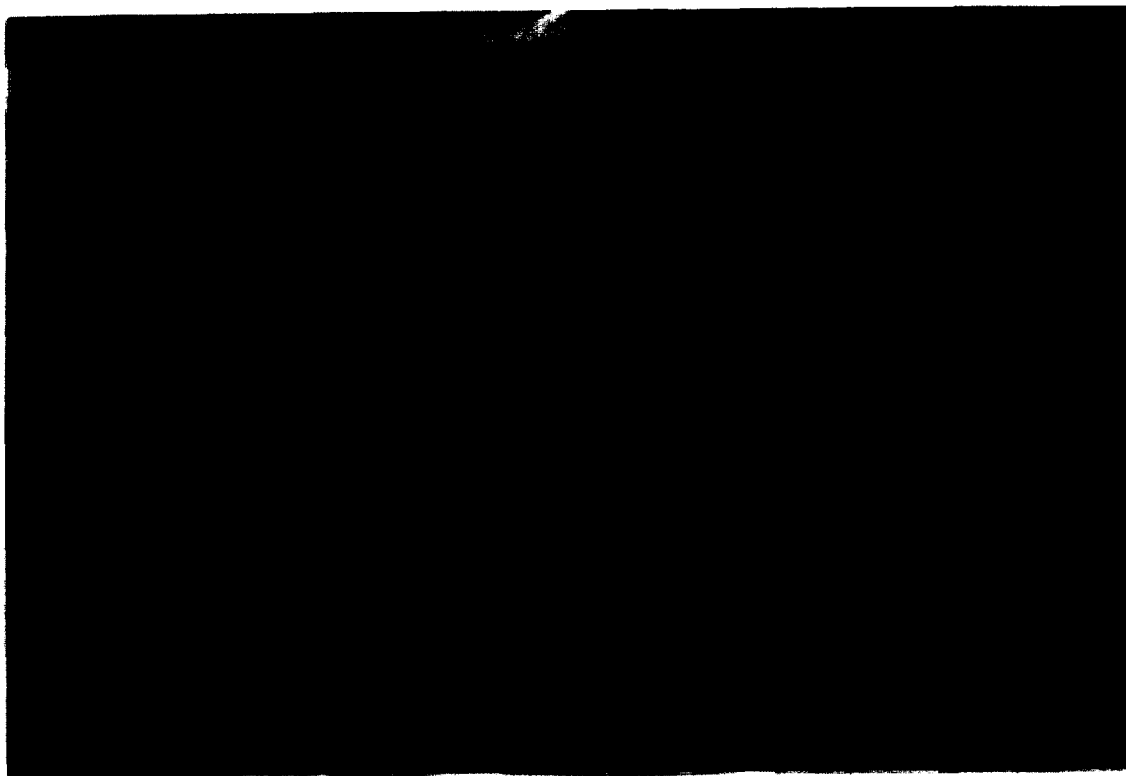


**Photograph # 3 - Hot Spot treatment with Fenton reagent.**

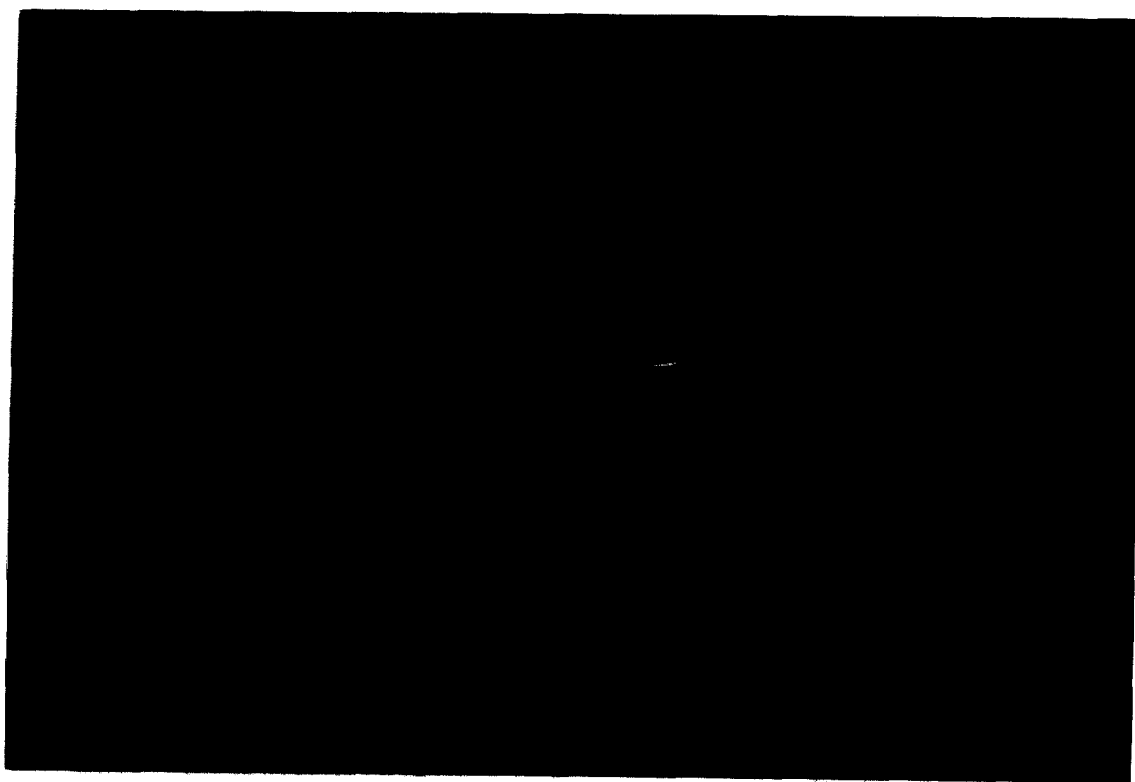


**Photograph # 4 - Concrete pad demolition and stockpiling for crushing.**





**Photograph # 5 - Portable wastewater treatment system being installed on-site.**



**Photograph # 6 - Geotechnical sampling of year one at the borrow pit area.**